

PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re Application of:

James H. Wang et al.

Serial No. 09/753,076

Filed: December 29, 2000

For: Grafted Biodegradable Polymer Blends)

Art Unit: 1711

Examiner: not known

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INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

The citation of information on the attached Form PTO/SB/08 is made pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98. A copy of each cited item is enclosed.

The citation of this information does not constitute an admission of priority or that any cited item is available as a reference, or a waiver of any right the applicant may have under applicable statutes, Rules of Practice in patent cases, or otherwise.

Respectfully submitted,

Robert E. Richards  
Reg. No. 29,105

KILPATRICK STOCKTON LLP  
1100 Peachtree Street, Suite 2800  
Atlanta, Georgia 30309-4530  
(404) 815-6500  
KC Case No: 14996C  
Our Docket: 11302-1060 (44040-251537)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231, on 3-6-02.

Robert E. Richards - Reg. No. 29,105

Substitute for Form 1449/A/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** (use as many sheets as necessary)

Complete if Known

Application No. 09/753,076  
 Filing Date December 29, 2000  
 First Named Inventor James H. Wang  
 Group Art Unit 1711  
 Examiner Name  
 Attorney Docket Number 11302-1060

Sheet

of

1

## **U.S. PATENT DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number <sup>2</sup>	Kind Code <sup>3</sup> (if known)			
		5525671	B1	Ebato et al	06/11/1996	
		4284671	B1	Cancio et al	08/18/1981	
		5422387	B1	Toms et al	06/06/1995	
		5583187	B1	Sharak et al	12/10/1996	
		5342659	B1	Horowitz et al.	08/30/1994	
		4933182	B1	Higashi et al.	06/12/1990	
		4826493	B1	Martini et al.	05/02/1989	
		4620999	B1	Holmes	11/04/1986	
		5508101	B1	Patnode et al.	04/16/1996	
		5567510	B1	Patnode et al.	10/22/1996	
		5472518	B1	Patnode et al.	12/05/1995	
		5658977	B1	Yang et al.	08/19/1997	
		5700872	B1	Wang et al.	12/23/1997	
		4229334	B1	Klabacka et al.	10/21/1980	
		3531561	B1	Trebu	09/29/1970	
		3792011	B1	Smith et al.	02/12/1974	
		4367070	B1	Hayashi et al.	01/04/1983	
		4710187	B1	Boland et al.	12/01/1987	
		4762521	B1	Roessler	08/09/1988	
		4770656	B1	Proxmire et al.	09/13/1988	
		4789592	B1	Taniguchi et al.	12/06/1988	
		4798603	B1	Meyer et al.	01/17/1989	
		5057368	B1	Largman et al.	10/15/1991	
		5069970	B1	Largman et al.	12/03/1991	
Examiner Signature					Date Considered	

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent document, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

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Application No. 09/753,076  
 Filing Date December 29, 2000  
 First Named Inventor James H. Wang  
 Group Art Unit 1711  
 Examiner Name  
 Attorney Docket Number 11302-1060

Sheet

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of

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## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number <sup>2</sup>	Kind Code <sup>3</sup> (if known)			
		5108820	B1	Kaneko et al.	04/28/1992	
		5147712	B1	Miyahara et al.	09/15/1992	
		5162153	B1	Cooke et al.	11/10/1992	
		5202178	B1	Turner	04/13/1993	
		5241066	B1	Davis et al.	08/31/1993	
		5273596	B1	Newkirk	12/28/1993	
		5277976	B1	Hogle et al.	01/11/1994	
		5336552	B1	Strack et al.	08/09/1994	
		5382400	B1	Pike et al.	01/17/1995	
		5508378	B1	Ohara et al.	04/16/1996	
		5593778	B1	Kondo et al.	01/14/1997	
		5783504	B1	Ehret et al.	07/21/1998	
		5637631	B1	Kitada et al.	06/10/1997	
		5691424	B1	Suzuki et al.	11/25/1997	
		5685757	B1	Kirsch et al.	11/11/1997	

Examiner Signature	Date Considered
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<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent document, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** (use as many sheets as necessary)

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Complete if Known	
Application No.	09/753,076
Filing Date	December 29, 2000
First Named Inventor	James H. Wang
Group Art Unit	1711
Examiner Name	
Attorney Docket Number	11302-1060

Sheet **3** of **7**

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office <sup>3</sup>	Number <sup>4</sup>			
		EP	0654504	Toyo Seikan Kaisha Limited	04/24/1995	
		WO	92/04412	E.I. Du Pont De Nemours and Company	03/19/1992	
		EP	241178	Rohto Pharmaceutical Co. Ltd.	10/14/1987	
		JP	6-142127	Aicello Chem Co. Ltd.	05/24/1994	
		EP	0080274	Imperial Chemical Industries Plc	06/01/1983	
		EP	0438598	Mitsubishi Rayon Co. Ltd.	07/31/1991	
		EP	0436966	Dai-ichi Kogyo Seiyaku Co. Ltd.	07/17/1991	
		WO	94/17226	Fiberweb North America Inc.	08/04/1994	
		WO	95/10645	Rieter Automatik GMBH	04/20/1995	
		WO	94/10257	National Starch and Chemical Investment Holding Corporation	05/11/1994	
		JP	61-181859	Mitsubishi Petroch KK	08/14/1986	
		WO	96/20738	Kimberly-Clark Co.	07/11/1996	
		EP	0705934	Kimberly-Clark Co.	04/10/1996	
		EP	0210754	Atlantic Richfield Co.	02/04/1987	
		EP	0612773	Mitsubishi Petrochemical Co.	08/31/1994	
		EP	0569153		11/10/1993	
		JP	6-207320		07/26/1994	
		JP	6-207323		07/26/1994	
		JP	6-207324		09/06/1994	
		JP	6-248552		05/23/1995	
		JP	7-133511		05/28/1996	
		JP	8-134723	Yunichika K.K. et al.		X

Examiner Signature	Date Considered
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<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent document, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** (use as many sheets as necessary)

Sheet

4

of

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Application No.

09/753,076

Filing Date

December 29, 2000

First Named Inventor

James H. Wang

Group Art Unit

1711

Examiner Name

Attorney Docket Number

11302-1060

## **OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner  
Initials

Cite  
No.¹

Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published

Author: Ikejima, T., et al. Title: Infrared Analysis on Blends of Poly (3-Hydroxybutyric Acid) and Stereoregular Poly (Vinyl Alcohol): Influence of Tacticity of Poly (Vinyl Alcohol) on Crystallization of Poly (3-Hydroxybutyric Acid)  
Publ.: Macromolecular Chemistry and Physics Vol: 197(3) Pages: 869-880 Date: 3/1/96

Author: Williams et al. Title: Biodegradable Plastics from Plants  
Publ.: Chemtech Vol: Pages: 38-44 Date: 9/1/96

Author: Title: Derwent Publications Ltd., Database WPI, JP 08 212995 (Misubishi Paper Mills Ltd.), 8/20/96  
Publ.: Vol: Pages: Date: 8/20/96

Author: Title: Derwent Publications Ltd., Database WPI, JP 01 246411 (Sawashita A), 10/2/89  
Publ.: Vol: Pages: Date: 10/2/89

Author: Title: ASTM Designation: D 1238-95, "Standard Test Method for Flow Rates of Thermoplastics by Extrusion Plastometer,"  
Publ.: Vol: Pages: 273-281 Date: 1/1/96

Author: Good, Robert J., et al. Title: Surface and Colloid Science-Experimental Methods  
Publ.: Vol: II Pages: 31-91 Date: 1/1/79

Author: Database WPI Title: Derwent Publications Ltd., Database WPI, EP 640474, (H. Utz), "Laminated Film Manufactured By Vacuum Deposition of Functional Layer Between Two Films"  
Publ.: Vol: Pages: Date:

Author: Database WPI Title: Derwent Publications Ltd., Database WPI, JP 6-212511 A, (Unitika Ltd.), "Biodegradable Staple Fiber Useful for Sanitary Napkin"  
Publ.: Vol: Pages: Date:

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¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent document, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

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 Group Art Unit 1711  
 Examiner Name  
 Attorney Docket Number 11302-1060

Sheet 5 of 1

## **OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T <sup>2</sup>
		Author: Database WPI	Title: Derwent Publications Ltd., Database WPI, JP 9-041220 A, (Unitika Ltd.), "Biodegradable Polyester Fiber"	Vol: Pages: Date:	
		Publ.:			
		Author: Dreizenshtok, G.S. et al.	Title: Chemical Abstracts 99(8)54963d, "Cellulose Decomposition in the Sintering of Fibers from Poly(tetrafluoroethylen) Dispersions"	Vol:3 Pages: 33-34 Date: 1/1/83	X
		Publ.: Khim. Volokna			
		Author: Fedorova, R.G. et al.	Title: Chemical Abstracts 109(4)24162z, "Composite Fibers From Polyacrylonitrile-Aromatic Polyamic Acid Blends"	Vol:2 Pages: 11-12 Date: 1/1/98	X
		Publ.: Khim. Volokna			
		Author: Fedorova, R.G. et al.	Title: Chemical Abstracts 188(16)106639x, "Structural Thermal Stabilization of Fibers Based on Aromatic and Heterocyclic Polymer Blends"	Vol:4 Pages: 36-45 Date: 1/1/77	X
		Publ.: Prepr. - Mezhdunar. Simp. Khim. Voloknam 2nd			
		Author: Geleji, Frigyes et al.	Title: Chemical Abstracts 82(14)87465v, "Bicomponent Fiber Structures on Polypropylene Basis"	Vol:42 Pages: 713-716 Date: 1/1/73	X
		Publ.: J. Polym. Sci., Polym. Symp.			
		Author: Gusev, V.K. et al.	Title: Chemical Abstracts 96(10)70305j, "Two-Component Acetate Threads"	Vol:6 Pages: 31-32 Date: 1/1/81	y
		Publ.: Khim. Volokna			
		Author: Sagatova, M. Sh. et al.	Title: Chemical Abstracts 102(10)80131f, "Structural and Mechanical Properties of Fibers Produced From Mixtures of Polyacrylonitrile and Chlorinated Poly(vinyl chloride)"	Vol: Pages: Date: 1/1/84	✓
		Publ.:			
		Author: Slizite, G. et al.	Title: Chemical Abstracts 105(26)228372v, "Study of Photochemical Degradation of Articles Produced from Complex Triacetate-Polyamide Fiber"	Vol:27 Pages: 98-102 Date: 1/1/86	X
		Publ.: Nauch. Tr. Vuzov LitSSR. Khimiya i Khim. Teknol.			

Examiner Signature

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<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent document, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

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		First Named Inventor	James H. Wang
		Group Art Unit	1711
		Examiner Name	
Attorney Docket Number	11302-1060		
Sheet	6	of	7

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		Author: U. Ju Jui et al. Title: Chemical Abstracts 106(12)86124k, "Use of a Reactively Dyed Low-Molecular-Weight Polycapromide for Production of Colored Polypropylene Fibers" Publ.: Khim. Volokna Vol: 6 Pages: 22-24 Date: 1/1/86	X
		Author: Zakirov, I.Z. Title: Chemical Abstracts 96(4)21192M, "Effect of Small Amounts of Polymeric Additives on Structural-Mechanical and Thermal Properties of Synthetic Fibers Spun By a Wet Method" Publ.: 3-i Mezhdunar. Simpoz. po Khim. Voloknam, Kalinin, 1981, Vol: 5 Pages: 105-110 Date: 1/1/81	X
		Author: Zakirov, I.Z. Title: Chemical Abstracts 102(22)186548n, "Temperature Transitions in Polyacrylonitrile-Fibroin Mixtures" Publ.: Vysokomol. Soedin., Ser. B Vol: 27 Pages: 116-120 Date: 1/1/85	X
		Author: Zhao Delu, Xue Du et al. Title: Chemical Abstracts 105(12)99049u, "Applications of Controlled Degradation in Polypropylene Tape Yarns" Publ.: Suliao Vol: 15 Pages: 5-10 Date: 1/1/86	/
		Author: Title: Chemical Abstracts 114(22)209209s: abstract of laid open Japanese patent application JP 3040865 Publ.: Vol: Pages: Date:	/
		Author: Title: Chemical Abstracts 119(12)119421d: abstract of laid open Japanese patent application JP 5093316 Publ.: Vol: Pages: Date:	X
		Author: Title: Chemical Abstracts 119(12)119422e: abstract of laid open Japanese patent application JP 5093318 Publ.: Vol: Pages: Date:	X
		Author: Title: Chemical Abstracts 119(24)252062d: abstract of laid open Japanese patent application JP 5163616 Publ.: Vol: Pages: Date:	X

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<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent document, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

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				First Named Inventor	James H. Wang
				Group Art Unit	1711
				Examiner Name	
Sheet	7	of	7	Attorney Docket Number	11302-1060

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		<b>Author:</b> Title: Chemical Abstracts 120(8)79336s: abstract of laid open Japanese patent application JP 5093317 <b>Publ.:</b> Vol: Pages: Date: ✓	
		<b>Author:</b> Title: Chemical Abstracts 122(2)12043s: abstract of laid open Japanese patent application JP 6212548 <b>Publ.:</b> Vol: Pages: Date: ✓	
		<b>Author:</b> Title: Chemical Abstracts 122(2)12091f: abstract of laid open Japanese patent application JP 6248515 <b>Publ.:</b> Vol: Pages: Date: ✓	
		<b>Author:</b> Whittington, Title: Whittington's Dictionary of Plastics Lloyd R. <b>Publ.:</b> Vol: Pages: 258 Date: 1/1/1968	
		<b>Author:</b> Sperling, L.H. Title: Graft Copolymers <b>Publ.:</b> Introduction to Physical Polymer Science, Chapter 2, Vol: Pages: 44-47 Date: 1/1/1986	

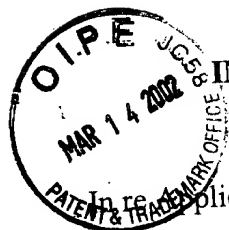
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<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent document, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.



1711



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James H. Wang et al.

Serial No. 09/753,076

Filed: December 29, 2000

For: Grafted Biodegradable Polymer Blends

) Art Unit: 1711

) Examiner: not known

) **CONFIDENTIAL**  
) **COMMUNICATION**

APPENDIX A

Assistant Commissioner for Patents  
Washington, D.C. 20231

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Sir:

Applicants respectfully request that the Examiner review the below-listed Kimberly-Clark patent applications. A copy of each listed application is enclosed. Please review and initial each listed application and return a copy of the initialed Appendix A to the Applicants.

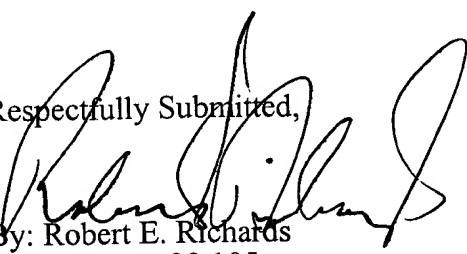
The serial numbers of the below-listed U.S. patent applications are listed on this form as provided in MPEP §609(D), rather than a PTO/SB/08 form, to avoid the serial numbers of the pending U.S. patent applications being published on any patent that may issue from this application. **Applicants do not waive the confidential nature of any of the above-listed patent applications.**

- \_\_\_\_\_ 1. U.S. Patent Application Serial No. 09/753,075 filed December 29, 2000.
- \_\_\_\_\_ 2. U.S. Patent Application Serial No. 09/752,810 filed December 29, 2000.

Serial No. 09/753,076

- \_\_\_\_\_ 3. U.S. Patent Application Serial No. 09/753,223 filed December 29, 2000.
- \_\_\_\_\_ 4. U.S. Patent Application Serial No. 09/753,077 filed December 29, 2000.

Respectfully Submitted,

  
By: Robert E. Richards  
Reg. No. 29,105

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KILPATRICK STOCKTON LLP  
Suite 2800  
1100 Peachtree Street  
Atlanta, Georgia 30309  
(404) 815-6500  
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Our Docket: 11302-01060 (44040-251537)